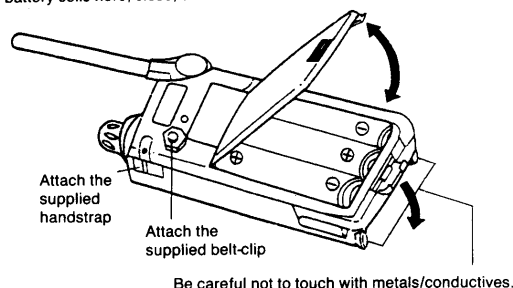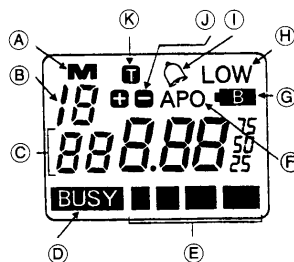Lift the bottom tab and lift the battery-case cover. Insert three AA drycells or NiCd battery cells here; close, and lock with the bottom tab.

Attach the supplied handstrap
Attach the supplied belt-clip

Be careful not to touch with metals/conductives.

■ DISPLAY

(A) "M" is displayed continuously on a programmed memory channel. The "M" flashes on a memory channel not yet programmed.
(B) Memory channel number.
(C) Frequency (and other parameters when programming functions)
(D) "BUSY" appears upon receiving a signal.
(E) S-meter/RF output power meter
(F) Auto Power Off enabled
(G) Low Battery Indicator (Flashes when needs replacement or charge)
(H) Low Power Output mode indicator
(I) Alarm function ON
(J) Offset shift direction
(K) CTCSS tone encoder ON

■ QUICK REFERENCE CHART

Condition Key	Pressed alone	Pressed while F is pressed	Press and hold and turn the power on
F			reset
MONI	unmutes squelch	keylock/unlock	beep on/off
PTT	transmits		
V/M	VFO←→Memory	Mem. write mode: Select CH by UP/DOWN key, & press V/M to write.	Channel Indication Mode
UP	freq./mem up (scans if pressed a while) (If pressed with PTT, emits alert tone.)		Courtesy beep ON
DOWN	freq./mem down (scans if pressed awhile) (If pressed with PTT, emits alert tone.)	tone freq. change	Courtesy beep OFF
CALL	call channel	alarm on/off	alert/1750Hz
SCAN	scan start	offset programming	
LAMP	lamp on/off	Auto Power Off	change lamp mode

■ FEATURES

Telescopic Antenna
Rotate, stand up and extend fully when operating.

External Power Terminal
Do not connect any power supply when dry cells are installed in the radio.
If NiCd batteries are installed, charging can be done through this terminal using the EDH-18, EDC-79 charger, or an external regulated 5.5V DC (negative ground).
(Do not use any other types of charger orelse the radio will be damaged and warranty will be void.)

External Microphone Jack
Connect to this jack when using an optional microphone (e.g. EMS-9, EME-12, etc.)

External Speaker Jack
Connect to this jack when using an optional speaker (e.g. EMS-9, EME-12, etc.)

PTT
Press-to-talk switch.

MONITOR
Press this switch to unmute the preset squelch and monitor weak signals. Press and hold the F-key and press this key to lock/unlock the keys to avoid unintended key entries. ("L" is displayed during the keylock.)

Function (F)
Press and hold this key and press another key to activate the secondary function. Press and release this key quickly to change the blinking frequency digit: the blinking digit can be changed with the UP/DOWN keys.

V/M/MW
Changes between VFO and memory channel. To program a memory channel, (1) in the VFO mode, press and hold the F-key and press this key, (2) Use the UP/DOWN key to select a memory channel number, (3) Press this key again to memorize the displayed frequency (including the offset and tone encoder) to that channel. Memory channels available are: c, 0 ~ 19.

DOWN/tone
Press this key to change frequency/channel downwards. Press this key while pressing the F-key to entre programming mode for the CTCSS encoder. Then press this key to change the encoding tone frequency. Press the F-key with this key again to the display/erase the 🅣 in the LCD that turns on/off the encoder. Press PTT to exit.
Pressing the UP or DOWN key while transmitting will emit 1750Hz tone or the alerting ring to raise the attention of the called party. This sound can be toggled between 1750Hz or the alerting ring by press and holding the CALL key (see below) and turning on the power. Press the UP or DOWN key for a few seconds to start scanning.

UP
Press this key to change frequency/channel upwards. Press this key while pressing the F-key to entre programming mode for the channel step. Press this key to change the channel step. Press PTT to exit.

Microphone

Speaker

LAMP/APO
Press this key to illuminate the LCD for 5 seconds. Press and hold the F-key and press this key to toggle the APO (auto-power-off); Use the UP/DOWN keys to change the automatic power off timer from OFF to 120 min. in 30 min. step. Press and hold this key and turn the power on, then the 5 second illumination timer is disabled; the lamp is toggled on/off with the key regardless of the time passed.

LCD

SCAN/SHIFT
Press this key to scan. Press and hold the F-key and press this key to set the semi-duplex offset frequency. Each press of the key in the offset setting mode changes the shift direction + or − . Press PTT to exit.

CALL/BELL
Pressing this key changes your operating frequency to memory ch "C". Pressing again resumes the original frequency. Press and hold the F-key and press this key to turn on/off the alarm function; the function alarms you with an electronic sound when a signal is received. (◠ appears in the LCD.)

Power switch and Volume

*Specifications and information found in this document are subject to change without notice.
Choice of NiCd battery is at user's risk.

ALINCO

■ UHF FM MINI POWER TRANSCEIVER

EC10

■ SPECIFICATIONS:

<General>
• Frequency range / 433.0625 ~ 434.7750MHz • Modulation / F3E • DC power source / 3.6 ~ 4.5V (internal battery), 5.5V (external regulated source) • Current TX / approx. 30mA@4.5V DC , RX / approx. 33mA (squelched) • Dimensions / 55(W) × 100(H) × 28(D)mm without projections • Weight / approx. 185g (with three AA drycells)

<Transmitter>
• Output Power / approx. 10mW@4.5V DC • Modulator / Variable reactance • Max. deviation / ± 5kHz

<Receiver>
Configuration / Double conversion superheterodyne • I.F. / 1st: 23.05MHz / 2nd: 450kHz • Sensitivity / better than − 15dB$_\mu$ (12dB SINAD) • AF output / not less than 100mW (10% distort. @8Ω)

ALINCO, INC.

■ OTHER FUNCTIONS

• **Courtesy Beep:** A short beep is emitted on your transmitting signal upon each release of the PTT key, to let the other party "goahead" and talk. To toggle on this function, press and hold the UP key and turn on the power. To toggle off, do the same with the DOWN key.

• **Key Stroke Beep Sound:** The beep heard with each stroke of keys can be toggled on/off, by pressing and holding the MONITOR key and turning the power on.
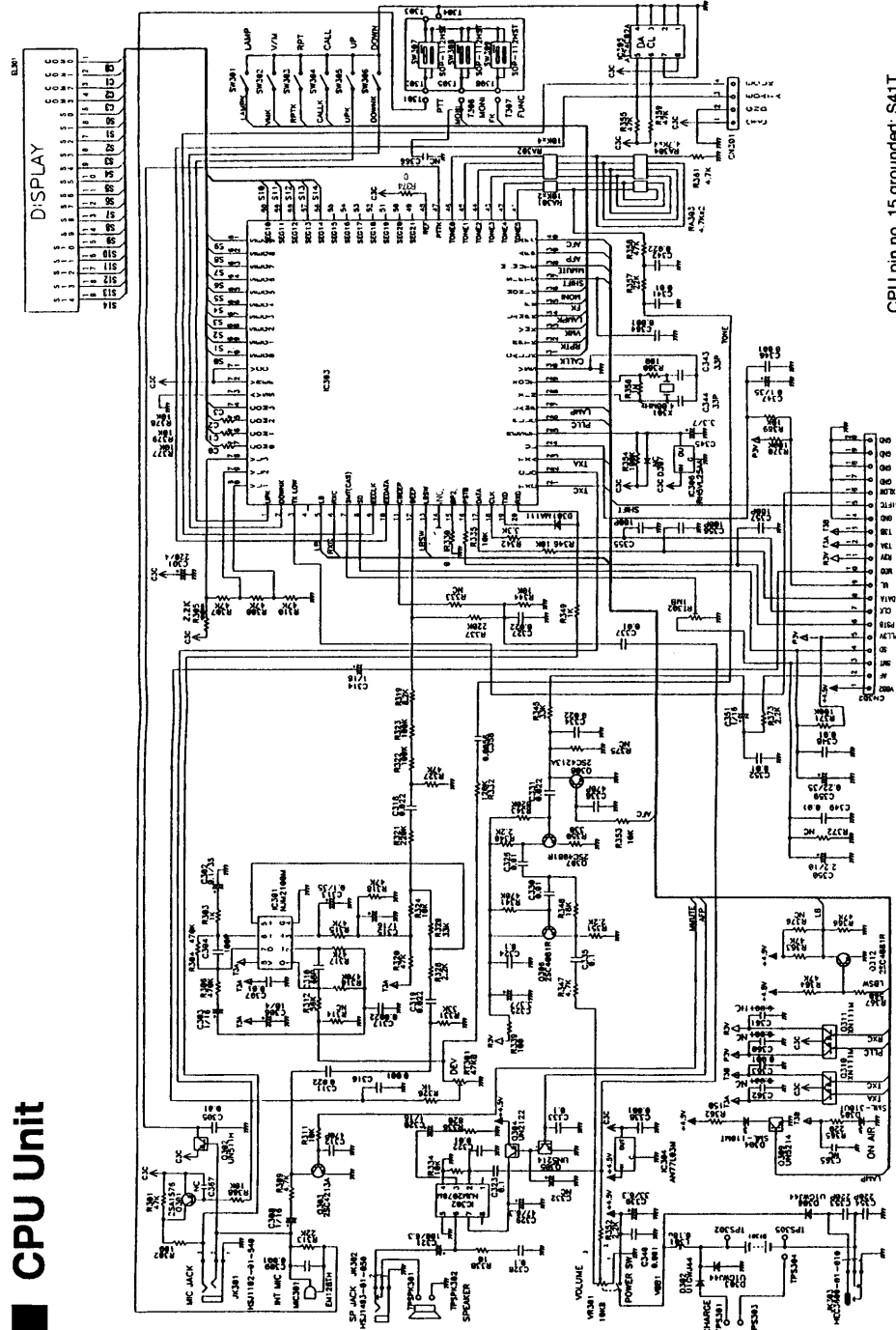
• **Channel Display Mode:** Only the memory channel number (and not the frequency) is displayed. If your operation is limited on your "usual" channels only, this setting may be useful. This mode can be entred/exited by press/holding the V/M key and turning the power on.

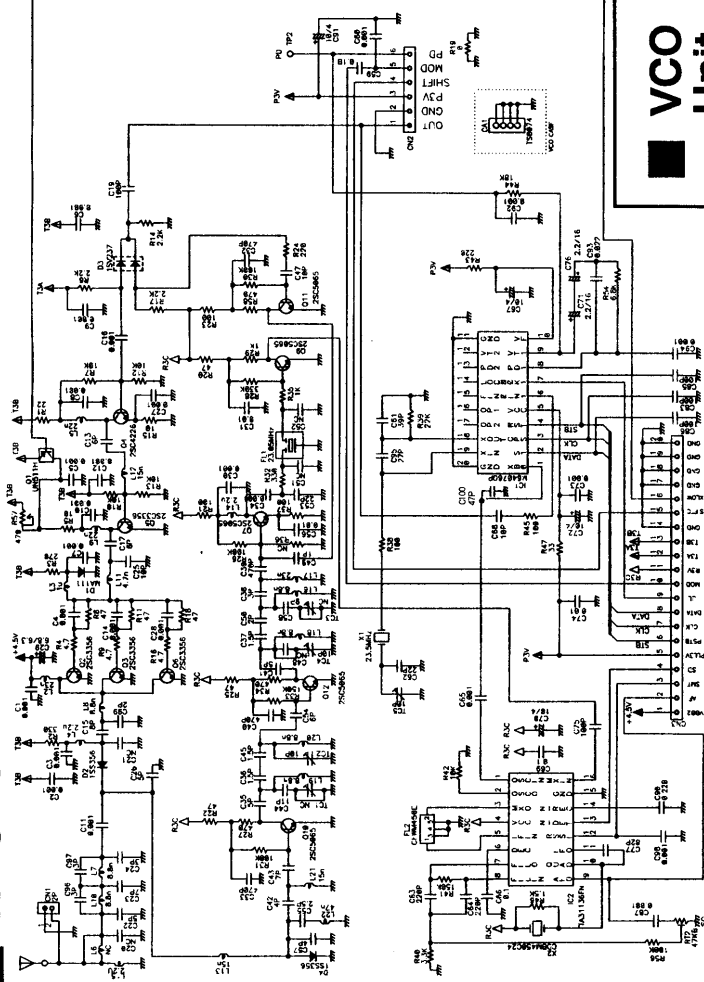Resetting: Press and hold the F-key and turn on the power.

■ OPTIONS

CPU Unit

CPU pin no. 15 grounded: S41T
CPU pin nos. 14 & 15 grounded: S41(C)

RF Unit

VCO Unit